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IS 6414 (1972): Parallel Walking Bars, Adult and Child Sizes, for the Handicapped [MHD 10: Medical Laboratory Instruments]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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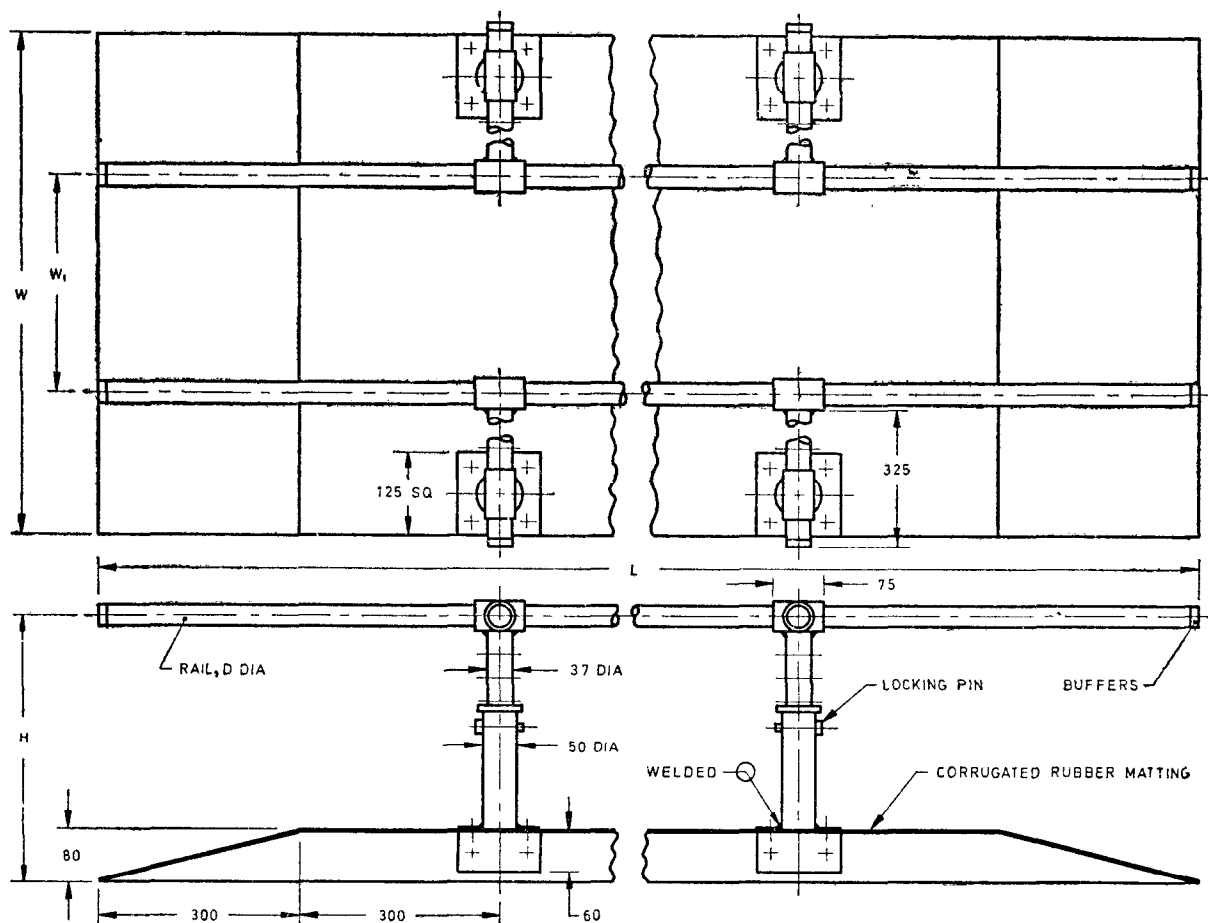


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Indian Standards Committee

SPECIFICATION FOR PARALLEL WALKING BARS, ADULT AND CHILD SIZES, FOR THE HANDICAPPED

1. Scope — Requirements for parallel walking bars for the handicapped. Two sizes for adult and child have been included with provision for adjustments of height of bars and width between the bars.

2. Shape and Dimensions — As shown in Fig. 1.



Size	L	W	W ₁ *	D Dia	H*
Child	3 000	750	325 to 500	31.25	365 to 610
Adult	3 600	875	400 to 645	44.45	550 to 900

*Adjustable in steps of 35.

All dimensions in millimetres.

FIG. 1 PARALLEL WALKING BARS FOR THE HANDICAPPED

2.1 If specifically desired by the purchaser, the parallel bars shall be supplied with a wooden platform.

2.2 The adjustments for width between the bars shall be provided only if specially asked by the purchaser. The width between bars for non-adjustable parallel bars shall be 450 mm for child size and 550 mm for adult size or as desired by the purchaser.

3. Materials

3.1 Tubing — Galvanized steel tubes.

3.2 Timber — The platform shall be built up by a framework of seasoned heartwood of any of the species of timber specified for furniture and cabinet making in IS : 399-1963 'Classification of commercial timbers and their zonal distribution (*revised*)'. Sapwood, if present, shall be given a suitable treatment in accordance with IS : 401-1967 'Code of practice for preservation of timber'. The covering of the platform shall be 13 mm thick of 7-ply board, of Grade WWR, Min, of IS : 303-1960 'Plywood for general purposes (*revised*)'.

3.3 Rubber Flooring — Shall conform to Type B of IS : 809-1970 'Specification for rubber flooring materials for general purposes (*first revision*)'.

3.4 Other metallic parts shall be of mild steel.

4. Construction, Workmanship and Finish

4.1 The parallel bars shall be of rigid construction. The supports shall be firmly bolted down on the wooden platform or the floor. The bolts shall be so fixed that they do not get loose during use.

4.2 Screw heads and joint screws shall be so fixed that they do not protrude in order to avoid possibilities of injury by contact with them.

4.3 Welding shall be sound and neat.

4.4 All surfaces shall be finished smooth and there shall be no sharp edges or protrusions which may cause injury to the user.

4.5 The rubber matting shall be glued to the plyboard and then fixed with nails. The nails shall not protrude above the mat surface so as to prevent injury to the user.

4.6 The height and width adjustments shall be capable of being carried out conveniently and smoothly. However, once fixed, the bar shall not change the position by itself.

4.7 The bars shall snugly fit into their supports and shall not rock.

4.8 All pipe ends shall be blanked off by suitable buffers.

4.9 The parallel bars shall be finished by painting in stoving enamel or air-drying enamel. The shade and number of coats shall be as agreed to between the purchaser and the supplier. Prior to painting, all parts shall be degreased, rust-proofed by phosphating and then suitably protected by an anti-corrosive primer. Each coat shall be separately stoved or air-dried. The finished paint shall be hard and shall not readily chip or flake. The rails shall be covered with a suitable snugly fitting plastic sleeves if specifically desired by the purchaser.

4.10 When placed on a level surface the equipment shall be completely stable and shall not have any rocking which will undermine the confidence of the user.

5. Test — With the rails adjusted to the maximum height, a load of 135 kg shall be applied gradually at the centre of each bar. The load shall be maintained for two minutes. On removing the load, the rails shall not have acquired a new set and the equipment shall not be damaged. It shall not have developed any rocking movement.

6. Marking — The equipment shall carry a label displaying the manufacturer's name, initials or recognized trade-mark and size of the equipment.

6.1 Certification Marking — Details available with the Bureau of Indian Standards.

7. Packing — As agreed to between the purchaser and the supplier.